



Acquisition Reform Panel

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PEOSUB PMS425

Acoustics - Rapid COTS Insertion AN/BQQ-10 An Acquisition Reform Success

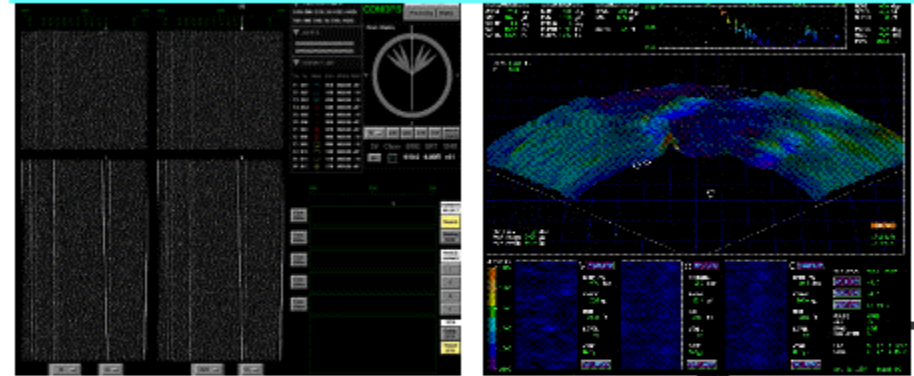


A-RCI THE U.S. NAVY SOLUTION FOR ACOUSTIC SUPERIORITY

- Two separate ACAT III Programs
- COTS, Open Systems processing replacement for legacy processing
- Build-test-build linked closely with Advanced Development
- First two systems fielded in 18 months
- Baseline for Virginia Class and Common Acoustic Processor

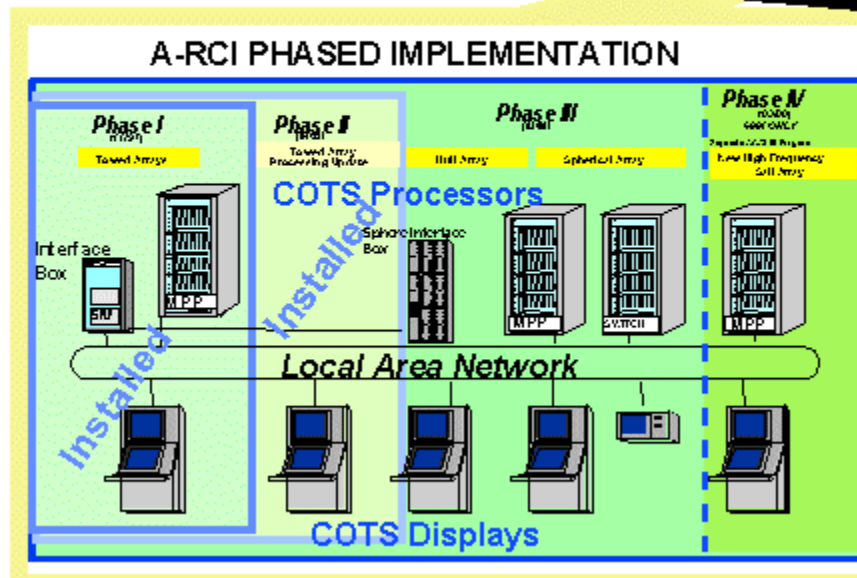
Phase I & II
Towed Array
Processing

Advanced OM Concepts



Phase IV
High
Frequency
Upgrade

Phase III
Hull/Sphere
Array
Processing



Hardware Features

- MultiPurpose Processor
- AN/UYQ-70 Display



Hurdles & Metrics

- **Hurdles:**
 - **Creating a Open Systems/Business model**
 - **Time from Advanced Development to Fleet Introduction took too long**
 - **Capability needed now**
 - **Acceptance of innovations from many sources**
- **Metrics:**
 - **Quantifiable performance characteristics tested with real sea data against actual targets of interest**
 - **Peer reviews allowing consensus among scientific community, eliminate one winner takes all syndrome**
 - **Time to delivery**



Lessons Learned

- **Change is hard work**
 - Diligence and risk taking pays off
- **Significantly reduced time interval between system changes**
 - Impacts operator proficiency/training
 - Impacts supportability
 - Process re-engineering necessary to keep pace with technology
- **Fleet user involvement in development process is major factor for success**

Results:

- **A-RCI installed 18 months after program inception, 12 installs this year with first APB integrated**
- **Process is repeatable and sustainable, model for others to follow**
- **MOUs in place with SPAWAR (IUSS) and PMS411 (SQQ-89) for Common Acoustic Processor**